



Since 1881

## **THE AMERICAN COLLEGE**

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited (2<sup>nd</sup> Cycle) by NAAC with Grade "A" CGPA – 3 .46 on a 4 - point scale

**MADURAI - 625002**

### **SSR Cycle – 3**

#### **Criterion I – Curricular Aspects**

#### **1.1. Curriculum Design and Development**

#### **Course Outcomes (COs) – Research Programmes**

#### **Department of English**

#### **Course Outcomes - M. Phil English**

##### **Rhetoric & Research Methodology**

At the end of the course, scholars will be able to

- i. adapt to the different kinds of literary research: bibliography, textual criticism, biographical, theoretical and interpretive,
- ii. integrate the basic principles of literary theories with methods of textual analysis,
- iii. compile and process the art of research work,
- iv. produce MLA documentation & citation skills, and
- v. evaluate the ELT issues in the Indian context for action research appropriately applying the APA style

##### **Modern Criticism & Theory**

At the end of the course, scholars will be able to

- i. assess structuralist and poststructuralist poetics
- ii. compare and contrast the principles of deconstruction and psychoanalysis
- iii. prepare the characteristics of postmodernism, new historicism & ecocriticism
- iv. discriminate the ideologies of feminism, masculine studies, & postcolonialism
- v. evaluate the application of theories to the interpretation of literary texts

## **Contemporary Fiction in English**

At the end of the course, scholars will be able to

- i. evaluate the trends and techniques in contemporary literary texts from the east and the west;
- ii. analyse the cultural issues pertaining to the emerging twenty first century;
- iii. differentiate the thought processes of the novelists of these two spheres;
- iv. explain the emerging epistemes available through the novelists of this century;
- v. and integrate cultural formation and diversity seen in the emerging world.

## **English Language Teaching**

At the end of the course, scholars will be able to

- i. evaluate language policies in India
- ii. appraise language skills
- iii. devise assessment techniques
- iv. explore continuous professional development
- v. develop instructional materials and technologies

## **Dissertation**

After completing research, scholars will be able to

- i. prepare the reviews of literatures,
- ii. hypothesize research problems & issues and thesis statements,
- iii. conduct experiments & deconstruct literary texts,
- iv. write original research papers/chapters in books, and
- v. structure dissertation

## **Department of Commerce**

### **Course Outcomes - M. Phil Commerce**

#### **Research Methodology**

At the end of the course, students will be able to

- i. Describe social research and its types with importance and limitations.
- ii. Predict and formulate research problems, hypothesis and sampling.
- iii. Analyse the data collected for the selected research problem.
- iv. Appraise the analytical knowledge of using SPSS.
- v. Compile the research report.

#### **Financial Management and Control**

At the end of the course, students will be able to

- i. Assess their knowledge on the finance functions and investment decisions;

- ii. Analyse the significance of cost of capital, cost of debt and the effects of operating and financial leverages on profit;
- iii. Describe the capital structure and dividend policy in practice;
- iv. Examine the techniques in working capital management and lease financing;
- v. Explain the impact of international financing on the monetary policy of India.

### **Marketing Management**

At the end of the course, students will be able to

- i. Illustrate the concept of marketing, impact of environment on marketing decisions with the selection of market.
- ii. Analyse the product decisions, price fixation, distribution and the promotional efforts.
- iii. Evaluate marketing research and marketing operations.
- iv. Ascertain the issues and the recent developments in marketing.
- v. Apply 4 P's of marketing in par with the paradigm shift in international marketing

### **Business Management**

At the end of the course, students will be able to

- i. Describe different forms of business organization, management of companies and its meetings.
- ii. Classify the various functions of management.
- iii. Appraise production and personnel to achieve the economies of scale.
- iv. Develop their knowledge on the institutions providing finance for business.
- v. Assess the Social Responsibility of business.

### **Dissertation**

At the end of the course, students will be able to

- i. Identify the problem for research.
- ii. Frame hypothesis, a tentative preposition to a research problem.
- iii. Prepare questionnaire for collection of data.
- iv. Analyse the collected data using statistical tools and techniques.
- v. Find out the solution to the problem and prepare research report.

## **Department of Economics**

### **Course Outcomes - M. Phil Economics**

#### **Economic Theory and Policy**

At the end of the course, students will be able to

- i. Juxtapose inductive and deductive reasoning
- ii. Understand economics as behavioural science
- iii. Develop macroeconomic models and evaluating macroeconomic policies

- iv. Analyse economic performance in light of policy, strategy and planning
- v. Evolve exploratory and confirmatory approaches to economic analysis

### **Research Methodology and Quantitative Techniques**

At the end of the course, students will be able to

- i. Comprehensive different approaches in research methodology
- ii. Design research methodology suited to economic problems under consideration
- iii. Identify appropriate data and validating data sources
- iv. Formulate econometric models for exploratory approach and confirmatory approach to economic analysis
- v. Prepare full-fledged research report with its all essentials

### **Computer Applications in Social Science Research**

At the end of the course, students will be able to

- i. Familiarize hardware and software applications
- ii. Enable to use spreadsheet for data analysis
- iii. Make use of statistical software for data mining and processing
- iv. Build time series models for identifying and solving economic problems
- v. Prepare research report with all essential and presentations

### **Dissertation**

At the end of the course, students will be able to

- i. Develop the skill of identifying issues of social relevance and national importance
- ii. Formulate appropriate research design suited for the problem under study
- iii. Design theoretical frame work for the research project
- iv. Apply relevant statistical tools in testing hypothesis
- v. Prepare an analytical report to be presented for public consumption.

## **Department of Botany**

### **Course Outcomes – M. Phil Botany**

#### **Research Methodology**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure on

- i. how scientific research works
- ii. broader methods of research carried out the different domains of botanical sciences
- iii. developing a research s design to pursue various sorts of research inquires in plants

- iv. data collection, collation, oral and written communication for peer comparisons and references
- v. finalization of results and preparing oral and written communication through preparation of research articles for publication in standard peer reviewed journal

### **Trends in Plant Sciences**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure on

- i. the updates of the ongoing research in the various spheres of botanical sciences
- ii. the nuances of molecular biology and genetic engineering
- iii. nitty-gritty of nanobiology
- iv. foundations and conceptualization in system biology
- v. impact and consequences of changing environmental regimes on plants and plant life

### **Plant Tissue Culture**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure on

- i. the concept and idea of plant tissue culture and its applications
- ii. the detailing of the medium preparation, uses and its consequences
- iii. scope of cell, tissue and organ cultures in plants
- iv. various methods of cloning and crop improvement
- v. application of cell cultures and metabolic engineering

### **Bioprocess Engineering**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure on

- i. the ideas, concepts and strategies of bioprocess engineering
- ii. the strategies of downstream processes
- iii. mechanism and scope of exploiting bioprocess
- iv. the modelling and simulation of the bioprocess
- v. taking advantage of the recombination of cell cultivation

### **Mycology**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure

- i. on the unique attributes of kingdom fungi
- ii. over the expanse of and the diversity of constituent forms and their systematic position
- iii. about the fungal reproduction and genetic aspects of various types of fungi
- iv. of fungal ecology and the various types of interactions
- v. with applied and industrial mycology that economic impact and anthropocentric concerns on fungi is considered and assessed.

## **Plant Pathology**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure to have

- i. gained a comprehensive overview of the different facets of studies in plant pathology
- ii. critically understood the causes of diseases of plants and disease cycle
- iii. familiarized herself / himself with various strategies of disease management
- iv. understood the risks of the incidence of post harvest diseases
- v. Biocontrol agents hired in dealing with various plant diseases and the strategies of IPM

## **Dissertation Studies**

On successful completion of this course scholar to have found themselves updated with sufficient information and exposure

- i. to frame hypothesis and reaper an appropriate research design for experimentation
- ii. on executing the planned experiments consonance with stipulated scientific precision and rigor
- iii. for independently collecting data for arriving at meaningful deductions and conclusions
- iv. to liaison with national and global compatriots to elevate the standard of enquiry, and
- v. to prepare research findings in such a way to make original and first hand contributions to body of knowledge in chosen domain of study

# **Department of Chemistry**

## **Course Outcomes M. Phil Chemistry**

### **Research Methodology**

At the end of the course, scholars will be able to:

- i. explain different routes to carry out literature survey and apply digital platform for the same.
- ii. illustrate various terminology involved in scientific publication and design a scientific publication
- iii. illustrate data collection and presentation. Assess error and suggest solution for its minimization.
- iv. prescribed safe laboratory practices in handling glassware and chemicals
- v. apply techniques for sample analysis

### **Advanced Topics in Chemistry**

At the end of the course, scholars will be able to:

- i. appraise the various concepts of Organometallic and Bioinorganic that govern modern day research.
- ii. rationalize the usage of particular green approach for a reaction.

- iii. discuss the application of Molecular machines.
- iv. articulate the importance of all spectral information and solve conjoint spectra
- v. describe the importance of potentiometry and electro analytical techniques and interpret the chemistry behind them

### **In Depth Study of Related Literature**

At the end of the course, scholars will be able to:

To gain knowledge in the proposed/relevant area of research and apply in their projects This paper is based on the project work proposed by the guide for each student. Guide shall select 10 research articles including review related to the project work from reputed international journals. A written test will be conducted for 3 hours and evaluated by the guide. The students are expected to give a seminar which would be jointly evaluated by all guides. There will be no end of semester examination

### **Dissertation**

Dissertation work is a two-semester sequential course. The objective of this course is to enable the scholar to carry out the project selected in the first semester supplemented by experimental investigations. The scholar may be given an option to carry out investigation or analysis in CSIR laboratories, NITs and universities.

- i. Progress report: the first progress report should be presented to the department before the 60th working day of the second semester.
- ii. Preview of dissertation: the scholar will present the preview of the dissertation by the 75<sup>th</sup> working day of the semester to the department
- iii. Submission of the dissertation: the scholar has to submit 4 hard copies of the dissertation by the 85th working day of the second semester to the department. A copy of this dissertation will be sent to the external examiner for review.
- iv. Evaluation of the dissertation: the Head of the PG department will be the Chairman and the convener of the research committee. Internal valuation will be done by the guide.
- v. The Viva -Voce examination will be conducted by panel of examiners, which consists of chairman, external examiner (who valued the dissertation) and the guide, during the examination period of the second semester and the results will be announced

## **Department of Mathematics**

### **Course Outcomes - M. Phil Mathematics**

#### **Research Methodology**

At the end of the course, the students will be able to

- i. provide the overview of research methodology.

- ii. define and analyse the problem chosen by the students and know how to do the literature survey work and write the dissertation.
- iii. use LATEX type -setting to frame the dissertation.
- iv. analyze the topological concepts.
- v. present the research works through PowerPoint presentation.

### **Algebra**

At the end of the course, students will be able to

- i. discuss fundamental group and covering spaces.
- ii. define modules and discuss its characteristics.
- iii. explain the structure of modules
- iv. outline the structure of rings
- v. analyse prime and primary ideals and demonstrate Noetherian Rings with examples.
- vi. understand the properties of different types of ideals; • recognize the concept of a module and their constructions;
- vii. understand the properties of modules of fractions; • recognize the properties of tensor product of algebras; • understand the Extension fields, their types and characterizations.

### **Analysis**

At the end of the course, students will be able to

- i. discuss measurability and integration of functions.
- ii. explain the generalization of complex differentiation along with power series representation and calculus of residues.
- iii. outline the importance of Fourier transformations and their properties.
- iv. categorize Riemann and Lebesgue integral of bounded functions.
- v. demonstrate with examples and counter examples of general Lebesgue integral and the convergence of measure.

### **Algebraic Topology**

At the end of the course, the students will be able to

- i. define homotopic maps, homotopy type, retraction and deformation retract, extend the concept and calculate the fundamental groups of n-sphere.
- ii. discuss the concepts of the cylinder, the torus, and the punctured plane. Apply the Brouwer fixed-point theorem and fundamental theorem of algebra.
- iii. explain covering projections, the lifting theorems, relations with the fundamental group.
- iv. identify and analyse the classification of covering spaces, Universal covering space.
- v. conceptualize more intrinsic and inherent advantages of the Borsuk-Ulam theorem, free groups, Seifert –Van Kampen theorem.



### **Advanced Topics in Graph Theory**

At the end of the course, students will be able to

- i. discuss Eulerian/ Hamiltonian graphs and study their properties.
- ii. use the applications of different parameters of a graph.
- iii. validate and critically assess the different types of colouring.
- iv. apply the distance concept in graphs.
- v. define different types of domination and study its real-life applications.

### **Fractal Geometry and Fuzzy Mathematics**

At the end of the course, students will be able to

- i. demonstrate space of fractals transformations on metric spaces.
- ii. illustrate fractal dimensions and its consequences.
- iii. discuss fuzzy operations and relations.
- iv. analyse various measures in fuzzy.
- v. classify the types of measures of uncertainty and illustrate its classical measures.

### **Analytic Number Theory**

At the end of the course, students will be able to

- i. discuss arithmetic functions and its averages space of fractals transformations on metric spaces.
- ii. distinguish the Dirichlet Characters
- iii. explain Dirichlet series and Euler product.
- iv. discuss the various concepts of partitions.
- v. demonstrate asymptotic of infinite product generating function and its congruences properties.

### **Advanced Topology**

At the end of the course, students will be able to

- i. Summarize quotient spaces and its decomposition.
- ii. Explain various concepts in uniform spaces.
- iii. Discuss completeness and compactness in uniform spaces.
- iv. Discriminate point wise topology and open topology.
- v. Identity and demonstrate bitopological spaces

### **Advanced Fluid Dynamics**

At the end of the course, students will be able to

- i. categorize Newtonian and Non-Newtonian fluids.
- ii. demonstrate the governing equations in fluid dynamics.

- iii. analyse the characteristics of steady flow over various geometries.
- iv. characterize unsteady flow and its physical parameters.
- v. discuss boundary flow and the importance of Magnetohydrodynamics.

### **Differential Equations**

At the end of the course, students will be able to

- i. demonstrate existence and uniqueness of initial value problems.
- ii. explain two dimensional autonomous systems and phase space analysis.
- iii. analyse the asymptotic behaviour.
- iv. discuss the existence of solution using perron's method.
- v. identify and discuss heat and wave equations.

### **Advanced Functional Analysis**

At the end of the course, students will be able to

- i. demonstrate contraction mapping theorem and its applications.
- ii. explain approximation theorems and its consequences.
- iii. discuss the structural specialty of inner product space as a special case of Banach spaces.
- iv. outline the spectral theory.
- v. categorize various linear mappings.

### **Statistical Inference & Stochastic Process**

At the end of the course, students will be able to

- i. compute maximum likelihood estimator and discuss its properties.
- ii. Discuss Neyman pearson fundamental lemma for various distributions and analyze two sided hypothesis.
- iii. Demonstrate unbiasedness and various invariant tests.
- iv. Explain the concept of stochastic process and classify states and chains
- v. Identify and analyse Markov and Poisson process.

### **Dissertation**

At the end of the course, students will be able to

- i. understand need and scope of research.
- ii. enhance their communication skill through meticulous interactions.
- iii. use the mathematical techniques for solving real time issues.
- iv. compile and write dissertation based on their experiences as a researcher.
- v. use the modern gadgets and exploit the digital data for an enhanced accuracy and reliability.

## Department of Physics

### Course Outcomes – M. Phil Physics

#### Research Methodology

At the end of the course, students will be able to

- i. Solve simultaneous equations using Gauss elimination and Gauss Jordan equation and determine the values of integration by trapezoidal and Simpson's rules.
- ii. Compute the interpolated values using various methods.
- iii. Write programmes in C++ to elucidate physics problems in electromagnetism and quantum mechanics.
- iv. Use Math CAD and MATLAB software's for carrying out mathematical computations.
- v. Disseminate the packages like Ms Excel, power point, Corel draw, LaTeXetc and apply them for documentation.
- vi. Interpret the results and write a research article from various characterization techniques like XRD, Raman and SEM.

#### Advanced Topics in Physics

At the end of the course, students will be able to

- i. ascertain the evolution of universe using various models
- ii. discuss the approximations in solid state theory and superconductivity
- iii. explain canonical formation and quantization of fields
- iv. elucidate the symmetry in quantum mechanics
- v. classify the types of oscillators and equilibrium points
- vi. explain the types of bifurcations

#### Vacuum Technology & Thin Films

At the end of the course, students will be able to

- i. discuss the kinetic theory of gases and different types of vacuum pumps and pressure gauges;
- ii. explain the methods of thin film process and coating;
- iii. elucidate the theories of nucleation and types of nucleation;
- iv. describe the optical, electrical and mechanical properties of thin films;
- v. enumerate the different characterization techniques for thin film coating and explain the different applications of thin films

#### Dissertation

At the end of the course, students will be able to

- i. work independently, identify appropriate resources required for a project, and manage

- a project through to completion;
- ii. apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, and claims; establish hypotheses, predict cause-and-effect relationships;
- iii. analyse, interpret and draw conclusions from quantitative/qualitative data;
- iv. use ICT to access a variety of relevant information sources; and use appropriate software for analysis of data;
- v. demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

## **Department of Zoology**

### **Course Outcomes – M. Phil Zoology**

#### **Research Methods**

Upon completion of this course, students will be able to:

- i. Compare and analyse the various biophysical methods.
- ii. Assess the principle and methodology in biochemical methods.
- iii. Explain the importance and applications of radiolabelling techniques.
- iv. Rate the applications of immunotechniques in the field of biology.
- v. Compute biological data using statistical methods.

#### **Biological Techniques**

Upon completion of this course, students will be able to:

- i. Identify the techniques used in Microscopy.
- ii. Evaluate the role of molecular techniques in various areas of research.
- iii. Discuss the techniques and intricacies involved in rDNA methods.
- iv. Explain and evaluate field biology methods.
- v. Analyse biological data using bioinformatics tools.

#### **Environmental Science and Biotechnology**

Upon completion of this course, students will be able to:

- i. Assess the importance of environmental resources and identify the problems related to environment.
- ii. Plan strategies for biodiversity conservation.
- iii. Utilize biotechnology principles in monitoring and restoring the quality of environment.
- iv. Design eco-friendly bio-products and utilize them to solve energy crisis and pollution problems.
- v. Discuss unsustainability problems related to food, energy and environment.

## **Immunology**

Upon completion of this course, students will be able to:

- i. Revise the structure of antibody and its functions.
- ii. Discuss HLA genetics & polymorphism, tissue & molecular typing.
- iii. Explain the mechanisms involved in CMI, tolerance and hypersensitivity.
- iv. Critique about autoimmunity & immune response to tumors.
- v. Evaluate the role of vaccines, transgenic animals and stem cells in combating immunodeficiency diseases.

## **Insect Diversity**

Upon completion of this course, students will be able to:

- i. Outline the morphology and physiology of insects.
- ii. Assess the role of insects in an ecosystem.
- iii. Analyse the importance of agricultural and forest pests.
- iv. Identify and apply the procedures following in industrial entomology.
- v. Evaluate the role of pesticides, regulators, parasitoids in pest management.

## **Applied Microbiology**

Upon completion of this course, students will be able to:

- i. Discuss the origin and compare archaebacterial cells with modern microbial organisms.
- ii. Evaluate the bacterial growth and metabolism.
- iii. Assess the microbial diversity and microbial interaction with other lives.
- iv. Explain the importance of food preservation, microbial spoilage and food borne diseases.
- v. Identify the problems related to public health and evaluate the control measures.

## **Probiotics**

Upon completion of this course, students will be able to:

- i. Identify and classify beneficial microbes and their biological role.
- ii. Describe the procedure for commercial probiotic production and consumption.
- iii. Apply probiotics in animal physiology and human health.
- iv. Analyse the role of probiotics in immune response and stress.
- v. Explain the effect of beneficial microbes in animal husbandry and aquaculture.

## **Research Project I and II**

Upon completion of this course, students will be able to:

- i. Design a research project and do literature survey.
- ii. Plan experiments and collect data.
- iii. Analyse collected data statistically to arrive at conclusions.

- iv. Demonstrate ability to do independent research.
- v. Create new applications and prepare project proposals.

## **Department of Management**

### **Course Outcomes – M. Phil Management**

#### **Functional Management Decision**

At the end of the course, scholars would be able to

- i. Compile the Overview of the concept of Management
- ii. Summarize the human resource planning
- iii. Outline the concepts of marketing management.
- iv. Analyse the operations management skills.
- v. Recognize the importance of financial management.

#### **Research Methods in Management**

At the end of the course, scholars would be able to

- i. Demonstrate and apply the Research Process
- ii. Formulate the Research design and sample design
- iii. Compare different data collection methods and devise the steps in data preparation
- iv. Demonstrate proficiency in hypothesis testing using different statistical methods
- v. Design and organize a research report using appropriate manuscript writing procedures

#### **Marketing Management**

At the end of the course, scholars would be able to

- i. Identify and explain the importance of advertising process.
- ii. Outline the service marketing approaches.
- iii. Analyse the consumer behavior.
- iv. Analyse the markets and marketing research.
- v. Evaluate the trends in marketing.

#### **Human Resource Management**

At the end of the course, students would be able to

- i. Outline a framework of knowledge relating to the concepts and evolution of Human Resources Management
- ii. Apply the knowledge of man power planning
- iii. Identify the methods of training and development.
- iv. Analyse the different aspects of work life balance.
- v. Outline the performance evaluation methods.

## **Financial Management**

At the end of the course, scholars would be able to

- i. Prepare the corporate financial statements as per the accounting standards
- ii. Outline the dividend theories and policies.
- iii. Analyse the different financial services.
- iv. Formulate the valuation methods.
- v. Assess the investment management.

## **Banking and Insurance**

At the end of the course, students would be able to

- i. Gain knowledge on the Indian Banking system.
- ii. Identify different sources of finance and funds and the steps involved in availing loan.
- iii. Assess the risk management systems.
- iv. Analyse the mergers and acquisitions in banking sector.
- v. Outline the different technology based epayment and digital payment systems.

## **Trade and Logistics Management**

At the end of the course, scholars would be able to

- i. Identify the different industrial sectors.
- ii. Assess the international trade system.
- iii. Identify the traffic systems in logistics.
- iv. Explain the supply chain management.
- v. Discuss the types distribution logistics.

## **Operations Management**

At the end of the course, scholars would be able to

- i. Identify the concept of product development.
- ii. Design different material management systems.
- iii. Formulate the industrial design system.
- iv. Identify and apply the concept of TQM and different tools for TQM.
- v. Design the project management system.

## **Entrepreneurship Development**

At the end of the course, scholars would be able to

- i. Outline the Importance of Entrepreneurship & its Evolution in India
- ii. Identify the entrepreneurial environment
- iii. Explain the steps in setting up a small enterprise.

- iv. Narrate the process of creating business plan.
- v. Specify the stages of in developing a new venture.

### **Information Technology**

At the end of the course, scholars would be able to

- i. Identify the basics of Information System
- ii. Outline the concepts of web technology.
- iii. Analyse and design the database systems.
- iv. Explain the need for web security.
- v. Outline the e-governance systems.

### **Dissertation & Viva Voce**

At the end of the course, students would be able to

- i. Demonstrate the knowledge in the subject of Business Administration and
- ii. Apply the principles of Business Administration to the needs of the Employer / Institution /Enterprise/ Society.
- iii. Gain Analytical skills in the field/area of Management and Administration
- iv. Solve the complex management problems and evolve strategies for organization development
- v. Demonstrate professional ethics, community living and Nation Building initiatives

## **Department of Tamil**

### **Course Outcomes – M. Phil Tamil**



**நோக்கம்:**

ஆய்வு நெறிமுறைகள் பற்றிய அறிமுகத்தைப் பெறுவதோடு, தெரிவு செய்த தலைப்பில் ஆய்வேட்டினை உருவாக்குதல் இப்பாடத்தின் நோக்கங்களாக அமைகின்றன.

**கற்றலின் பயன்:**

1. ஆய்வைப் பற்றி வரையறுக்கவும் விவரிக்கவும் பேசவுமான திறன்களைப் பெற்றிருப்பர்.
2. ஆய்வு எது? ஏன், எப்படி? என்று அடையாளங்கண்டு ஆராயும் திறனைப் பெற்றிருப்பர்.
3. ஆய்வை எழுதுவதற்கான முறையைத் திட்டமிட்டு, முடிவு செய்து எழுதும் திறனைப் பெற்றிருப்பர்.
4. ஆய்வைப் பல்வேறு துறைகளோடு இணைத்து எழுதும் திறனைப் பெற்றிருப்பர்.
5. ஆய்வுத் தலைப்பைத் தெரிவு செய்த பின்னர், அதனைத் திட்டமிட்டு வடிவமைப்புச் செய்து, முழுமையாக எழுதும் திறனைப் பெற்றிருப்பர்.

**நோக்கம்:**

காலந்தோறும் தமிழ் இலக்கண - இலக்கியங்கள் உருவ, உள்ளடக்க நிலையில் அடைந்த மாற்றங்கள், வளர்ச்சிப் போக்குகள் முதலியன பற்றி அறிமுகம் பெறுதலும், இவற்றினூடேயுள்ள ஆய்விற்குரிய தளங்களை உற்றுநோக்கி அறிந்துகொள்ளுதலும் இப்பாடத்தின் நோக்கங்களாக அமைவுபெறுகின்றன.

**கற்றலின் பயன் :**

1. தொல்காப்பியத்தின் தாக்கம் நன்னூல், புறப்பொருள் வெண்பாமாலை போன்ற பிற்கால இலக்கண நூல்களில் தொழிற்பட்டுள்ளமையை இனங்கண்டு, பொருத்தப் பார்க்கும் திறன் பெற்றிருப்பர்.
2. தொல்காப்பியம் உருவாக்கியுள்ள அகம் மற்றும் புறக் கோட்பாடுகளைப் புரிந்து கொள்வதோடு, அது காலந்தோறும் செலுத்தி வருகிற செல்வாக்கைப் பற்றி ஆய்வு நோக்குடன் வெளிப்படுத்துகின்ற திறனைப் பெற்றிருப்பர்.
3. காலந்தோறும் எழுந்த காப்பியங்கள், பக்தியிலக்கியங்கள், சிறுநிலக்கியங்கள் ஆகியனவற்றைப் பற்றிப் புரிந்து கொள்வதோடு, அவற்றை வகைப்படுத்துகிற திறனையும் பெற்றிருப்பர்.
4. இலக்கண - இலக்கிய உரையாசிரியர்களிடையே உள்ள கருத்தியல் சார்ந்த, பிரதிசார்ந்த வேறுபாடுகள் பற்றி விவாதிக்கும் திறனைப் பெற்றிருப்பர்.
5. மரபுக் கவிதையிலிருந்து நவீனக் கவிதை, உரைநடை ஆகியனவற்றைப் பிரித்துப் பார்க்கின்ற திறனையும் சுயமாக இவற்றைப் பற்றித் திறனாய்ந்து எழுதும் திறனையும் பெற்றிருப்பர்.

நோக்கம்:

இலக்கியங்களில் மையமாகும் சித்தனைப் போக்கைக் கோட்பாடாக வாசித்துப் புரிந்து கொள்ளுதலும், தமிழ்ச் சமூகம், அரசியல், சமயம், பண்பாடு சார்ந்த காரணிகளின் வழியாக உருப்பெற்ற இயக்கங்களானவை, இலக்கியங்களைப் பாதித்த முறையினை விளங்கிக் கொள்ளுவதும் இப்பாடத்தின் நோக்கங்களாகும்.

கற்றலின் பயன் :

1. சங்க, சங்க மருவிய இலக்கியங்களுக்குள் இருக்கும் கோட்பாடுகளை அடையாளம் காணும் திறன் பெற்றிருப்பர்.
2. காப்பிய, பக்தி இலக்கியங்களிலும் சமண, பௌத்த, இஸ்லாம், கிறித்துவம் போன்ற சமயத் தத்துவங்களிலும் உள்ள மனித மதிப்பீடுகளை அறிந்து கொள்ளும் திறனைப் பெற்றிருப்பர்.
3. கவிதை இலக்கியத்தைப் பல்வேறு கோட்பாட்டின் பின்னணியில் வாசிக்கும் திறன் பெற்றிருப்பர்.
4. தமிழ்ப் புனைகதை இலக்கியங்களை நவீனக் கோட்பாடுகளுடன் இணைத்து வாசிக்கும் திறனைப் பெற்றிருப்பர்.
5. தமிழ்ச் சமூகத்திற்குள் அரசியலோடு உருவான இயக்கங்களை அடையாளங்கண்டு அவற்றைக் குறித்து எழுதும் திறனைப் பெற்றிருப்பர்.

ஆய்வாளர் தமக்கு விருப்பமான ஆய்வுத் தலைப்பை, ஆய்வு நெறியாளரின் வழிகாட்டலின் மூலம் தேர்வு செய்யலாம். ஆய்வுத் தலைப்பானது, ஆய்வுசகத்திற்குப் புதுமையான, குறிப்பிடத்தக்க ஒன்றாக அமைதல் வேண்டும்.

ஆய்வேடு : அக மதிப்பீட்டுமுறை (மொத்த மதிப்பெண்கள் : 100)

ஆய்வேடு அகமதிப்பீடு, புறமதிப்பீடு என இரண்டு பகுதிகளாக அமையும்

1. முதல் பருவத்தின் கடைசி வாரத்தில் ஆய்வின் முற்கட்டச் செயல் முறை வடிவத்தை (ஆய்வுத் திட்டம்) எழுத்து வடிவத்தில் கொடுக்க வேண்டும். இதற்கு 20 மதிப்பெண்கள் வழங்கப்படும்.
2. ஆய்விற்கெனத் தேர்த்துகொண்ட முற்கட்டச் செயல் முறை வடிவத்தை ஆய்வுக் குழுவில் (புறத்தலைவர், ஆய்வு நெறியாளர், புறப் பேராசிரியர்கள்) விவாதித்துப் படைத்தல் வேண்டும். இதற்கு 20 மதிப்பெண் வழங்கப்படும். இது இரண்டாம் பருவத்தின் 4-ஆம் வாரத்தில் தரப்படுதல் வேண்டும்.
3. இரண்டாம் பருவத்தின் இறுதியில், முழுமையான ஆய்வேட்டை எழுத்து வடிவத்தில் ஆய்வுக் குழுவின் கலந்துரையாடலுக்குக் கொண்டு வருதல் வேண்டும். இதற்கு 60 மதிப்பெண்கள் வழங்கப்படும்.